LISTING OF THE CLAIMS

DAMAMRAJ & YOUST

Pursuant to 37 C.F.R. \$1.121, provided below is a listing of the claims, claims 1-15.

- 1. (Currently amended) A system for measuring fault coverage in an integrated circuit (IC), comprising:
- a Device Under Test (DUT) assembly including said IC, wherein said IC includes at least one node operable to be stimulated to a temporary stuck-at fault condition by a certain frequency of electromagnetic (EM) radiation;
- a probe operable to stimulate said DUT assembly with said frequency of EM radiation to create said temporary stuck-at fault condition at one or more nodes of said IC; and
- a test pattern generator and interface system interfacing with said DUT assembly, said test pattern generator and interface system operating to apply a test vector to said DUT assembly and receive a corresponding response, wherein said corresponding response is indicative of a fault coverage measurement.

- 2. (Original) The system for measuring fault coverage in an IC as recited in claim 1, wherein said IC is disposed on a die.
- 3. (Original) The system for measuring fault coverage in an IC as recited in claim 1, wherein said IC is disposed on a wafer.
- 4. (Original) The system for measuring fault coverage in an IC as recited in claim 1, wherein said IC is disposed on a packaged chip.
- 5. (Original) The system for measuring fault coverage in an IC as recited in claim 1, wherein said probe comprises a laser voltage probe.
- 6. (Currently amended) The system for measuring fault coverage in an IC as recited in claim 1, wherein said temporary stuck-at fault condition comprises a stuck-at-zero condition.

- 7. (Currently amended) The system for measuring fault coverage in an IC as recited in claim 1, wherein said temporary stuck-at fault condition comprises a stuck-at-one condition.
- 8. (Currently amended) A method for measuring fault coverage in an integrated circuit (IC), comprising:

stimulating a select number of nodes associated with said IC with a certain frequency of electromagnetic (EM) radiation;

creating a <u>temporary</u> stuck-at fault condition at <u>each of</u> said select number of nodes;

applying a test vector set to said IC upon creating said temporary stuck-at fault condition at each of said select number of nodes;

comparing said IC's output against expected results associated with said test vector set; and

determining fault coverage as a percentage of said temporary stuck-at fault conditions detected by said test vector set.

- 9. (Currently amended) The method as recited in claim 8, wherein said certain frequency of EM is supplied by a laser voltage probe system.
- 10. (Currently amended) The method as recited in claim 8, wherein said temporary stuck-at fault condition comprises a stuck-at-zero condition.
- 11. (Currently amended) The method as recited in claim 8, wherein said <u>temporary</u> stuck-at fault condition comprises a stuck-at-one condition.

12. (Currently amended) A system for measuring fault coverage in an integrated circuit (IC), comprising:

means for stimulating a <u>temporary</u> stuck-at fault condition at <u>each of</u> a select number of nodes associated with said IC with a certain frequency of electromagnetic (EM) radiation;

means for applying a test vector set to said IC upon creating said temporary stuck-at fault condition at each of said select number of nodes;

means for comparing said IC's output against expected results associated with said test vector set; and

means for determining fault coverage as a percentage of said temporary stuck-at fault conditions detected by said test vector set.

- 13. (Currently amended) The system for measuring fault coverage in an IC as recited in claim 12, wherein said means for stimulating a <u>temporary</u> stuck-at fault condition comprises a laser voltage probe system.
- 14. (Currently amended) The system for measuring fault coverage in an IC as recited in claim 12, wherein said temporary stuck-at fault condition comprises a stuck-at-zero condition.
- 15. (Currently amended) The system for measuring fault coverage in an IC as recited in claim 12, wherein said temporary stuck-at fault condition comprises a stuck-at-one condition.